

**Amendments to the Claims:**

This listing of the claims will replace all prior versions of the claims in the application:

1. **(Currently Amended)** A device useful for detecting an analyte of interest in a liquid sample, the device comprising:

a carrier formed of a permeable material for conducting flow of liquid sample suspected of containing an analyte of interest;

one or more reagents disposed on said carrier for detecting said analyte of interest in the liquid sample; and

a housing for receiving said carrier and comprising a sample deposition system, wherein the sample deposition system is operably associated with said carrier, wherein said sample deposition system delivers sample onto the carrier as a sample band of a first width, said sample band being essentially linear and the width being generally **transferase transverse** to the path of sample flow.

2. **(Currently Amended)** **[[A]] The** device of claim 1, further comprising a detection channel of a second width, comprising an immobilized reagent for binding with said analyte or with a binding partner thereof, downstream of said sample band, wherein the first width is greater than the second width to cause a convergence of the sample flow towards the detection channel.

3-5. (Canceled)

6. **(Withdrawn)** A device of the type useful to perform a lateral flow immunodiagnostic assay for one or more target analytes, the device comprising:

a carrier for conducting the flow of sample along a liquid path; the carrier comprising a sample receiving zone comprising a detectably labeled, mobile detector reagent for binding to the target analyte, and an analyte detection zone downstream of the sample receiving zone and comprising an immobilized capture reagent for binding with a complex formed between said analyte and said capture reagent, and

a housing for receiving the carrier, the housing comprising a sample receiving means and a sample deposition means in flow communication with the sample receiving means and the sample receiving zone, the sample deposition means being adapted to deposit liquid sample as a sample band that is essentially linear and has a width greater than the width of the analyte detection zone.

7. (Withdrawn) A device according to claim 6, wherein the sample receiving zone and the analyte detection zone are defined on distinct carrier pads, and wherein said pads are coupled for sample flow by a bridging pad.

8. (Withdrawn) A device according to claim 7, wherein the bridging pad and the analyte detection zone pad are connected by a wettable barrier layer that enhances capillary flow therealong.

9. (Withdrawn) A device according to claim 8, wherein the bridging pad has a width narrower than the length of the sample band deposited from the sample deposition means.

10. (Withdrawn) A device according to claim 8, wherein the sample deposition means comprises a sample inlet means and a sample deposition channel, for moving sample from the inlet to the sample receiving zone.

11. (Withdrawn) A device according to claim 10, wherein the sample deposition channel is integrated within the housing.

12. (Withdrawn) A device according to claim 10, wherein the sample deposition channel is dimensioned to promote lateral capillary flow to fill the sample deposition channel, before any substantial flow of the sample into the carrier.

13. (Withdrawn) A device according to claim 12, wherein the sample deposition channel is formed substantially within the housing.

14. (Withdrawn) A device according to claim 12, wherein the sample deposition channel is defined between a deposition channel defining surface and the carrier.

15. (Withdrawn) A diagnostic device of the type useful to perform a lateral flow immunodiagnostic assay, the device comprising a carrier for conducting the flow of sample

therealong, the carrier comprising a sample pad for receiving the sample and, in flow communication therewith, a detection pad comprising at least one reagent useful in detecting analyte in the sample, wherein the width of the sample pad is greater than the width of the detector pad.

16. (Withdrawn) A diagnostic device according to claim 15, wherein the carrier further comprises a bridging pad, and further wherein the bridging pad couples the sample pad and the detector pad in flow communication.

17. (Withdrawn) A diagnostic device according to claim 16, wherein each pad in said carrier comprises a water-impermeable backing layer and a sample conducting face, and further wherein the sample conducting face of the bridging pad is in contact with the sample conducting faces of each of the detection pad and the sample pad.

18. (Withdrawn) A diagnostic device according to claim 16, wherein the bridging pad and the detection pad are coupled in flow communication by an upper barrier layer of water-impermeable material that is either translucent or transparent.

19. (Withdrawn) A diagnostic device according to claim 15, further comprising a housing adapted to deposit sample onto said sample pad as a generally linear band having an axis that is transverse to the direction of sample flow and is wider than the width of the detection pad.

20. (Withdrawn) A diagnostic device for testing a liquid sample, the device comprising:

(a) a carrier for receiving at least a portion of the sample; and

(b) a sample delivery means, said sample delivery means having a delivery channel that is in fluid communication with the carrier, said delivery channel having a first delivery channel surface facing a second delivery channel surface, wherein said first delivery channel surface is spaced apart from said second delivery channel surface by a distance that promotes longitudinal advancement of the sample along the delivery channel by capillary action.

21. (Withdrawn) The device of claim 20, wherein the distance between the first delivery channel surface and the second delivery channel surface is less than 0.5 mm.

22. (Withdrawn) The device of claim 21, wherein the distance between the first delivery channel surface and the second delivery channel surface is less than 1.0 mm.

23. (Withdrawn) The device of claim 20, wherein the delivery channel has an inlet and an outlet, wherein at least a portion of the sample received at the inlet advances between the first delivery channel surface and the second delivery channel surfaces toward the outlet.

24. (Withdrawn) The device of claim 20, wherein the delivery channel is in fluid communication with a sample deposition means, wherein at least a portion of the sample received at the outlet of the delivery channel flows to the sample deposition means.

25. (Withdrawn) The device of claim 24, wherein the sample deposition means includes a deposition channel, said deposition channel having a deposition channel defining surface facing the carrier and defining the deposition channel, and wherein the deposition channel has a depth that promotes lateral distribution of the sample along the deposition channel by capillary action, thereby to form a sample band across the carrier.

26. (Withdrawn) The device of claim 25, wherein the depth of the deposition channel between the deposition channel defining surface and the carrier is less than 0.5 mm.

27. (Withdrawn) The device of claim 26, wherein the depth of the deposition channel between the deposition channel defining surface and the carrier is less than 1.0 mm.

28. (Withdrawn) The device of claim 25, wherein the first delivery channel surface is formed with an advancement groove, wherein at least a portion of the sample received at the inlet advances within the advancement groove along the delivery channel to the outlet.

29. (Withdrawn) The device of claim 28, wherein the advancement groove extends beyond the outlet of the delivery channel to promote the flow of at least a portion of the sample into the sample deposition channel.

30. (Withdrawn) The device of claim 24, wherein the delivery channel is generally rectilinear.

31. (Withdrawn) The device of claim 24, wherein the volumetric capacity of the sample delivery means provides a sufficient amount of liquid sample for the testing.

32. (Withdrawn) The device of claim 24, including a housing enclosing the carrier, wherein the sample delivery means and the sample deposition means are formed in the housing.

33. (Withdrawn) The device of claim 32, wherein the housing comprises a base member and an upper member, wherein the first delivery channel surface is provided on the base member and the second delivery channel surface is provided on the upper member.

34. (Withdrawn) The device of claim 33, wherein the base and upper members include abutting surfaces determining the distance between the first and second delivery channels.

35. (Withdrawn) The device as claimed in claim 20, wherein the carrier includes at least one detachably labeled, mobile reagent for binding with a target analyte and, at a position downstream thereof, at least one immobilized capture reagent for binding with the target analyte or a complex formed therewith.

36. (Withdrawn) A diagnostic device for testing a liquid sample, the device comprising:

- (a) a carrier for receiving at least a portion of the sample; and
- (b) a sample injection means, said sample injection means having an injection channel that is in fluid communication with the carrier.

37. (Withdrawn) The device of claim 38, wherein the injection channel is in fluid communication with a sample delivery means, and wherein at least a portion of the sample received in the sample delivery means flows into the injection channel.

38. (Withdrawn) The device of claim 37, wherein the sample delivery means includes an advancement groove, wherein the advancement groove extends into the injection channel to promote the flow of at least a portion of the sample into the injection channel.

39. (Withdrawn) The device of claim 38, wherein the volumetric capacity of the injection channel provides a sufficient amount of liquid sample for the testing.

40. (Withdrawn) The device of claim 36, wherein the carrier includes at least one detectably labeled, mobile detection reagent for binding to a target analyte, and, downstream therefrom, at least one immobilized capture reagent for binding with a complex formed by a corresponding mobile detection reagent and said target analyte.

41. (Previously presented) The device of claim 1, wherein the carrier comprises a plurality of distinct carrier pads having an upper surface and a lower surface.

42. (Previously presented) The device of claim 41, wherein the plurality of distinct carrier pads comprises a sample receiving pad, an analyte detection pad, and a bridging pad, said sample receiving pad and analyte detection pad being coupled for sample flow by the bridging pad.

43. (Previously presented) The device of claim 42, wherein the bridging pad and the analyte detection pad are held in flow communication with one another through a wettable barrier layer that contacts both the bridging pad and the analyte detection pad.

44. (Previously presented) The device of claim 42, wherein the bridging pad has a lower surface in contact with at least a portion of the sample receiving pad and at least a portion of the analyte detection pad.

45. (Previously presented) The device of claim 1, wherein said sample band is formed integrally within the carrier.

46. (Previously presented) The device of claim 41, wherein each pad in the plurality of distinct carrier pads comprises a permeable material.

47. (Previously presented) The device of claim 46, wherein the plurality of distinct carrier pads further comprises a water-impermeable material.